

Coliscan® MF

Specification Data

Selective For:	<i>E. coli</i> and total coliforms
Description:	Coliscan is a clear medium containing two chromogenic substrates. One is cleaved by the enzyme galactosidase (produced almost exclusively by coliforms) to produce an insoluble pink compound. This causes coliform colonies to become pink/red. The second is cleaved by the enzyme glucuronidase (produced almost exclusively by <i>E. coli</i>) to produce an insoluble teal compound. Using the two compounds allows easy visual distinction between general coliforms (pink/red colonies) and <i>E. coli</i> (pink + teal = blue/purple colonies).
Composition:	Contains nutrients and 2 chromogenic substrates. pH 7.0 ± 0.2
Procedure:	Use standard methodology for product being tested. Incubation time and temperature; 24-48 hrs at 35°C. It is possible to take accurate readings at 24 hours incubation time. Colors will intensify and colony size will be larger at 36-48 hours.
Interpretation:	<i>E. coli</i> * colonies will have a dark blue/purple overall colony color. Non-fecal coliforms (<i>Enterobacter</i> , <i>Citrobacter</i> and <i>Klebsiella spp.</i>) are pink to red in color. <i>Proteus</i> , <i>Salmonella</i> , and <i>Shigella</i> will generally grow as white colonies. Gram-positive organisms are generally inhibited. An occasional teal colony is indicative of a non-coliform which has the ability to produce glucuronidase but not galactosidase. A few strains of <i>Salmonella</i> and <i>Shigella</i> have this capability.
Storage:	Freeze
Shelf Life:	1 year

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